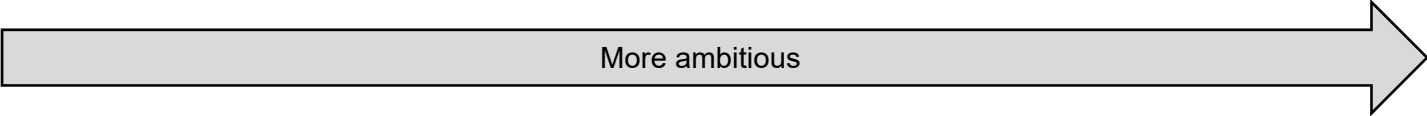


We will learn: Space

Element	More ambitious 		
1. Planets	Recall the names of the planets make up the solar system	Describe properties the different planets have	Explain how the planet's distance from the sun affects the properties it has
2. Solar System	Name the forces that keep the planets in position around the sun	Describe the relationship between gravity and the mass of a planet and how weight changes depending on gravity	Explain the relationship between gravity and distance from a planet
3. Space Missions	Name several methods used by scientists to gather information about space	Use real data to draw a graph	Interpret data and form conclusions
4. Rocket Fuel	State the three conditions needed for combustion of rocket fuel	Compare different hydrocarbons to their properties	Evaluate the use of two different fuels
5. Life on other Planets	State the conditions that scientists believe are necessary for life to form	State where in the Universe these conditions are likely to exist	Describe and explain how scientists look for these conditions and try to contact extraterrestrial, intelligent life that may have already evolved
6. Day, Night and Seasons	State what causes Day and Night on earth	Describe the cause of the Earth's seasons Explain the difference between seasons	Predict what would happen if the earth was not tilted
7. Phases of Moon & Eclipse	Name the 8 phases of the moon in order	Link the phase of the moon with the relative position of the earth, moon and sun	Explain what causes solar and lunar eclipses and how they link to the phases of the moon
8. Fusion and The Life cycle of Stars	State the life cycle of a star	Explain the life cycle of star in detail	Explain what processes inside stars lead to new elements and how are elements distributed throughout the universe
9. Space Station Science		Analyse experiments carried out in space to pick out the key findings and suggest why the experiment was carried out.	Design an experiment that will give valid and reliable results taking into account variables (very important in science)